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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/916,701	07/26/2001	Boon-Siew Ooi	021040-000800US	9267	
20350	7590 06/18/2002				
TOWNSEN	D AND TOWNSEND	EXAMINER			
TWO EMBA EIGHTH FLO	RCADERO CENTER OOR		MULPURI, SAVITRI		
SAN FRANC	SCO, CA 94111-3834		ART UNIT	PAPER NUMBER	
			2812	2	
			DATE MAILED: 06/18/2002	$\mathcal{O}$	

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No. 09/916,701

Applicant(s)

Ooi et al

Examiner

Savitri Mulpuri

Art Unit 2812



1)  Responsive to communication(s) filled on Jul 26, 2002  2e)  This action is FINAL. 2b  This action is non-final.  3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.  Disposition of Claims  4)  Claim(s) 1-47		The MAILING DATE of this communication appears	s on the cover s	heet with	the correspondence address			
THE MAILING DATE OF THIS COMMUNICATION.  Extension of time my be available under the provisions of 37 CPR 1.138 (a). In no event, however, may a raply be timely filed after \$13.00 (b) MONTHS from the mailing date of the communication.  If the prival for early specified down, the maximum statutory period will early and will early all \$2.00 (b) MONTHS from the mailing date of the communication.  If the prival for early specified down, the maximum statutory period will early and will early as \$2.00 (b) MONTHS from the mailing date of the communication of the prival	Period 1	for Reply						
If the plends for mpk; specified door a less than thinty (30) days, a reply within the stationy minimum of thinty (30) days. With the set or incomplete the period for my the process of the priority documents have been received.	THE MAILING DATE OF THIS COMMUNICATION.							
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This action is FINAL.   2b    This action is non-final.   3    Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.	Status							
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All   Claim(s)   1-47   is/are pending in the application.   is/are withdrawn from consideration.   is/are withdrawn from consideration.   is/are allowed.   is/are rejected.   is/are rejected.   is/are rejected.   is/are rejected.   is/are rejected.   is/are rejected.   is/are objected to.     is/are objected to.     is/are objected to.     is/are objected to.	3) 🗆	· · · · · · · · · · · · · · · · · · ·						
day of the above, claim(s)   is/are withdrawn from consideration.   is/are allowed.   is/are rejected.   is/are rejected.     is/are objected to.   is/are objected to.   is/are objected to.   is/are objected to.     is/are objected to.     is/are objected to.     is/are objected to.     is/are objected to.     is/are objected to.     is/are objected to by the Examiner.       is/are objected to by the Examiner.	Disposi	tion of Claims						
Signate allowed.   Signate allowed.   Signate allowed.   Signate rejected.   Signate rejected.   Signate rejected.   Signate rejected.   Signate rejected.   Signate rejected.   Signate rejected to signate objected to.   Signate rejected to signate rejected to restriction and/or election requirement.   Application Papers   Signate all accepted or   Signate all accepted or   Signate all accepted to by the Examiner.   Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).   Signate all approved.   Signate all all all approved.   Signate all all approved by the Examiner.   Signate all all approved by the Examiner.   Signate all approved by the Exa	4) 💢	Claim(s) <u>1-47</u>			is/are pending in the application.			
Size rejected.   Size rejected to.   Size rejected to restriction and/or election requirement.   Application Papers   Size rejected to by the Examiner.   Size rejected to rejected to by the Examiner.   Size rejected drawing correction filed on	4	a) Of the above, claim(s)			is/are withdrawn from consideration.			
Is/are objected to.   Is/are objected to.	5) 🗆	Claim(s)			is/are allowed.			
Claims 1-47 ( should be 1-48, see 37 is repeated )   are subject to restriction and/or election requirement.	6) 🗔	Claim(s)			is/are rejected.			
Application Papers  9	7) 🗆	Claim(s)			is/are objected to.			
9 ☐ The specification is objected to by the Examiner.  10 ☐ The drawing(s) filed on	8) 💢	Claims 1-47 ( should be 1-48, see 37 is repeated	<i>)</i> ar	e subject	to restriction and/or election requirement.			
10) ☐ The drawing(s) filed on	Applica	tion Papers						
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11) The proposed drawing correction filed on	10)	The drawing(s) filed onis/arc	e a) 🗌 accept	ed or b)□	objected to by the Examiner.			
If approved, corrected drawings are required in reply to this Office action.  12) The oath or declaration is objected to by the Examiner.  Fronty under 35 0.3.C. 33 113 and 120  13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some* c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  *See the attached detailed Office action for a list of the certified copies not received.  14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).  a) The translation of the foreign language provisional application has been received.  15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1 Interview Summary (PTO-413) Paper No(e).								
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	_		4) Interview S	Imman/IPTO	413) Pener No(c)			
2) In Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152)	_	tice of Draftsperson's Patent Drawing Review (PTO-948)	_					
3)  Information Disclosure Statement(s) (PTO-1449) Paper No(s)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							

Art Unit:

## RESTRICTION

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - I. Claims 1,2, 4-42, 44, drawn to process, classified in class 438, subclass 22.
  - II. Claims 3,43,45,46, drawn to product-by-process, classified in class 257, subclass 14.
- 2. The inventions are distinct, each from the other because of the following reasons: Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product as claimed can be processed by a materially different process such by heat treatment alone with no implantation if one of the elements in the compound semiconductor layer has high diffusion coefficient to result interdiffusion to the adjacent compound semiconductor layer. A product-by-process claim is directed to the product per se, no matter how actually made, In re Hirao, 190 USPQ 15 at 17(footnote). See also Fessmann, 1173 USPQ 685; In re Luck 177 USPO523: In re Fessmann 180 USPQ 324; In re Avery, 186 USPQ 161: In re Wertheim, 191 USPQ 90; In re Marosi et al, 218 USPQ 289 and particularly In re Thorpe, 227 USPQ 964, all of which make it clear that it is patentability of the final product per se which must be determined by "product by process" claim, and not the patentability of the process, and that old and product produced by new method is not patentable as a product, whether claimed in "product-by-process"

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claims are not. Not e that applicant has a burden of proof in such cases, as the above caselaw

makes clear.

3. Because these inventions are distinct for the reasons given above and have acquired a

separate status in the art as shown by their different classification, restriction for examination

purposes as indicated is proper.

4. Applicant is advised that the reply to this requirement to be complete must include an

election of the invention to be examined even though the requirement be traversed (37 CFR

1.143).

5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the

inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently

named inventors is no longer an inventor of at least one claim remaining in the application. Any

amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the

fee required under 37 CFR 1.17(I).

6. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to S. Mulpuri, whose phone number is (703) 305-5184

S. Mulpun

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June 15, 2002